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JUL 27 1992

Federal Communications Commission  
Office of the Secretary

ENGINEERING STATEMENT

JOINT COVERAGE STUDY  
MM DOCKET NO. 92-33

ORIGINAL  
FILE

The engineering data contained herein have been prepared on behalf of the five remaining mutually exclusive applicants in MM Docket No. 92-33, who propose to provide new noncommercial FM service on Channel 202 in various communities near Orlando, Florida. The application data are tabulated in Figure 1.

Figure 2 shows the five transmitter sites and the five predicted 60 db $\mu$  contours. Figure 3 contains the same information plus the 60 db $\mu$  contours of other noncommercial FM stations serving the area of interest. Figure 4 is a tabulation of other services included in the study, and Figure 5 includes tabulations of population and area data for each applicant. Also included in Figure 5 is a tabulation of data for the commonly served area.

Each applicant's 60 db $\mu$  contour was calculated independently, based upon the proposed station's effective radiated power (ERP) and antenna radiation center above mean sea level. The National Geophysical Data Center's 30-second terrain data base was used to determine each station's height above average terrain along the standard eight radials. Contour distances were then determined by computer, taking into account the station's proposed ERP along each azimuth. The contours of the other stations presently providing service to the area were likewise calculated. Land area within each proposed contour was determined by polar planimeter

Federal Communications Commission

Docket No. 92-33 Exhibit No. 1-5

Presented by CFEP

Identified ☒

Disposition } Received ☒

Rejected ☐

Reporter \_\_\_\_\_

Date 2/7/12

and applying the appropriate map scale factor.

Population figures are based upon the 1980 U. S. Census. Contours were transferred onto U. S. Census Minor Civil Division (MCD) maps, and population data were derived therefrom, assuming uniform population distribution within urbanized and non-urbanized portions of MCDs.

FIGURE 1

APPLICANTS IN  
MM DOCKET No. 92-33

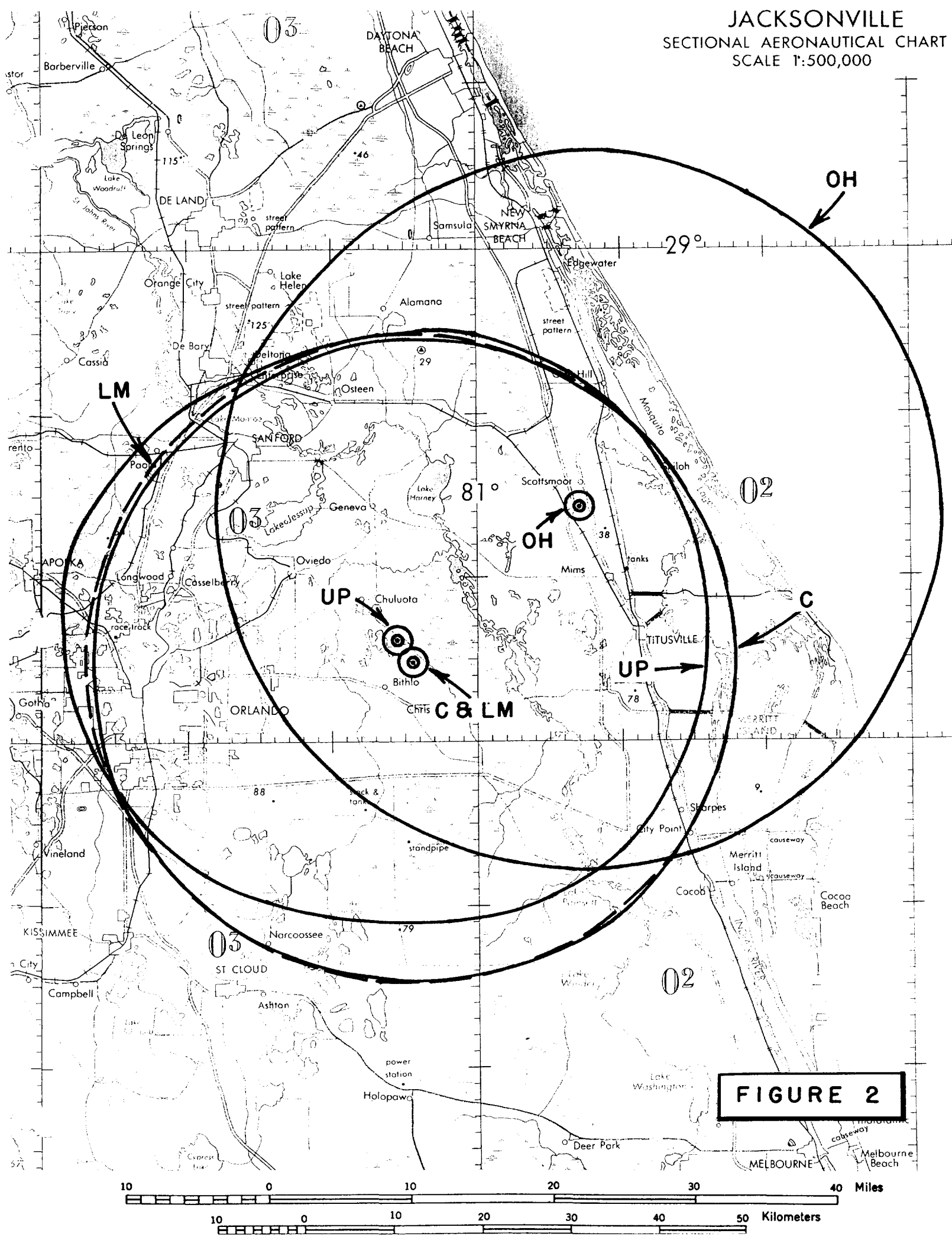
<u>Applicant</u>	<u>Map Code</u>	<u>File Number</u>	<u>Facilities</u>		
			<u>Power (kw)</u>	<u>Height meters</u>	<u>AAT feet</u>
Bible Broadcasting Network, Inc.; Channel 202C2; Conway, Florida	C*	BPED-890412MJ	1.9	300	984
Central Florida Educational Foundation, Inc.; Chan- nel 202C3; Union Park, Florida	UP	BPED-881207MA	0.95 (DA)	448	1470
Hispanic Broadcast System, Inc.; Channel 202C3; Lake Mary, Florida	LM	BPED-891128ME	1.9	306	1004
Mims Community Radio, Inc.; Channel 202C1; Oak Hill, Florida	OH	BPED-891127MD	80.0	61	200
Southwest Florida Community Radio, Inc.; Channel 202C2; Conway, Florida	C*	BPED-891127MC	1.9	300	984

\* The facilities specified by Bible Broadcasting Network, Inc., and Southwest Florida Community Radio, Inc., are identical.

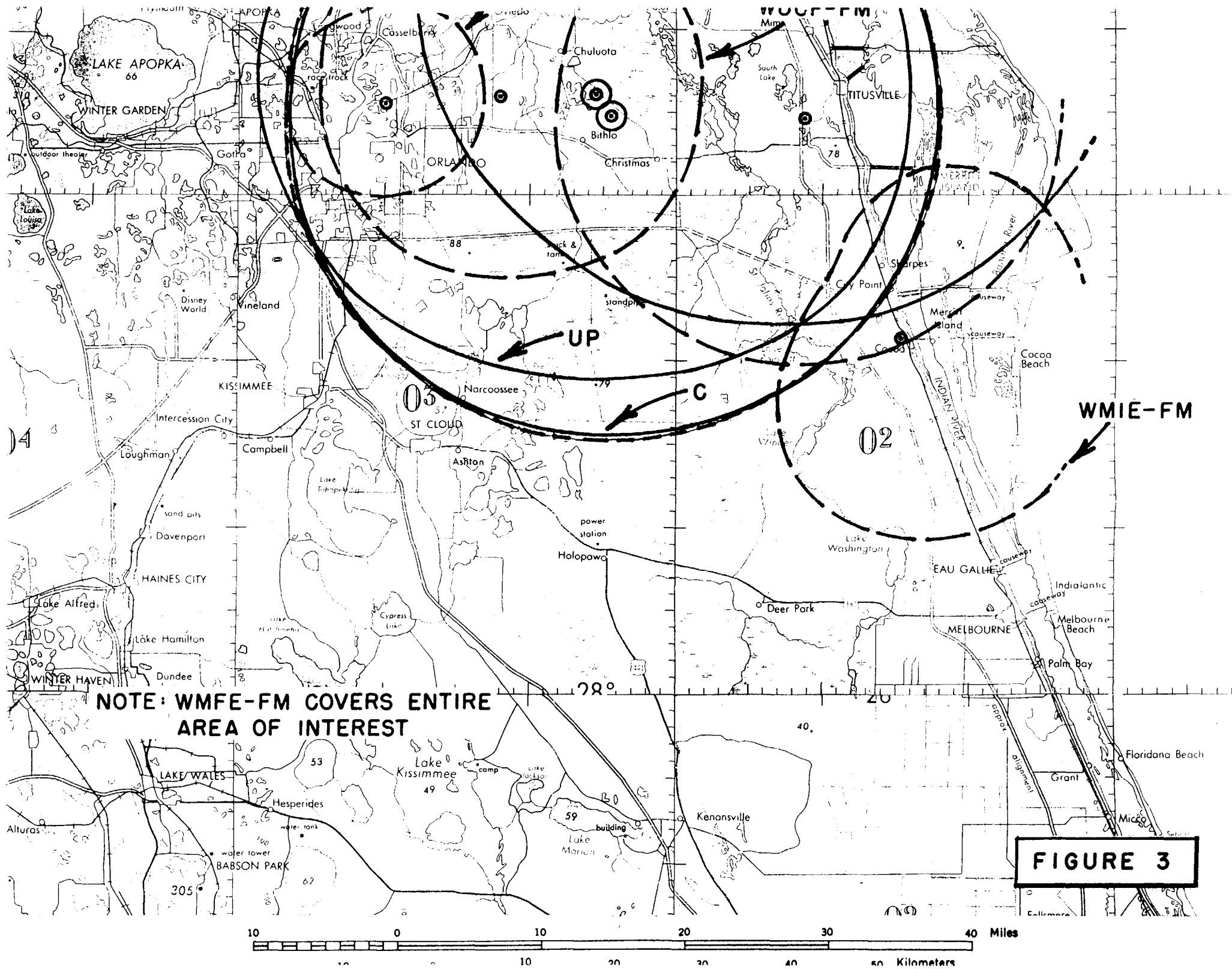
# JACKSONVILLE

## SECTIONAL AERONAUTICAL CHART

SCALE 1:500,000



**FIGURE 2**



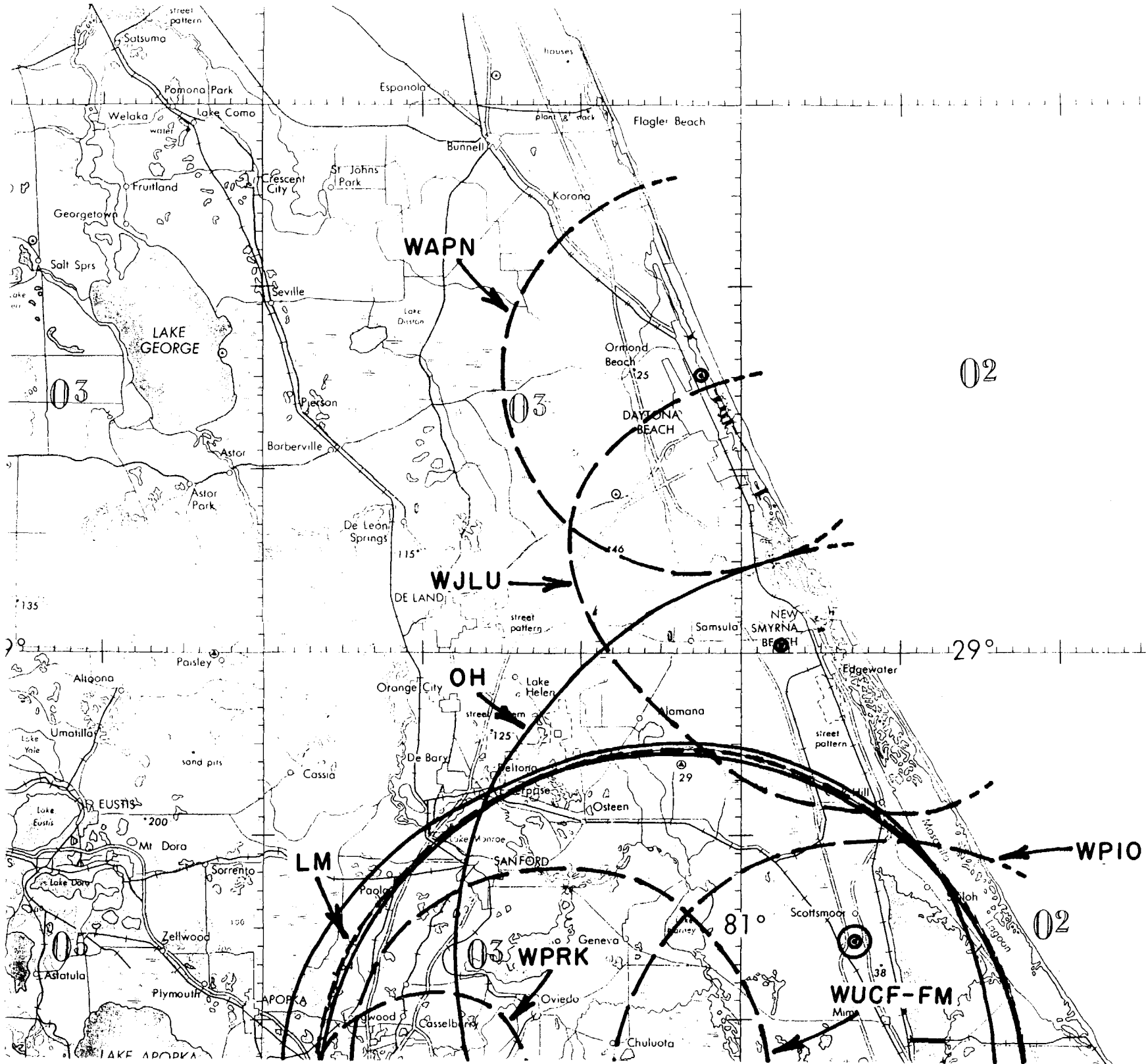


FIGURE 4

## OTHER NONCOMMERCIAL FM SERVICES INCLUDED IN STUDY

<u>Channel</u>	<u>Call Sign</u>	<u>City of License</u>	<u>Power (kw)</u>	<u>Antenna Height (ft. AAT)</u>
214C1	WMFE-FM	Orlando, Fla.	100	732
210C3	WUCF-FM	Orlando, Fla.	7.9	161
218A	WPRK	Winter Park, Fla.	1.3	89
207C3	WPIO	Titusville, Fla.	7.0	299
218C3	WMIE-FM	Cocoa, Fla.	20.0	98
209A	WJLU	New Smyrna Beach, Fla.	5.0	328
218A	WAPN	Holly Hill, Fla.	1.8	285



FIGURE 5-A

## POPULATION AND AREA DATA

BIBLE BROADCASTING NETWORK, INC.  
CHANNEL 202C2 - CONWAY, FLORIDA

	<u>Population</u>	<u>Area</u>	
		<u>(sq. km.)</u>	<u>(sq. mi.)</u>
No other services	0	0	0
One other service	126,141	1,163	449
Two other services	184,291	1,732	669
Three other services	215,429	816	315
Four other services	0	0	0
Five or more other services	0	0	0
Area common to all	87,287	2,406	929
Area not common to all	438,574	1,305	504
TOTAL	525,861	3,711	1,433

FIGURE 5-B

## POPULATION AND AREA DATA

CENTRAL FLORIDA EDUCATIONAL FOUNDATION, INC.  
CHANNEL 202C3 - UNION PARK, FLORIDA

	<u>Population</u>	<u>Area</u>	
		<u>(sq. km.)</u>	<u>(sq. mi.)</u>
No other services	0	0	0
One other service	184,775	1,090	421
Two other services	184,565	1,870	722
Three other services	212,472	728	281
Four other services	0	0	0
Five or more other services	0	0	0
Area common to all	87,287	2,406	929
Area not common to all	494,525	1,282	495
TOTAL	581,812	3,688	1,424

FIGURE 5-C

## POPULATION AND AREA DATA

HISPANIC BROADCAST SYSTEM, INC.  
CHANNEL 202C3 - LAKE MARY, FLORIDA

	<u>Population</u>	<u>Area</u>	
		<u>(sq. km.)</u>	<u>(sq. mi.)</u>
No other services	0	0	0
One other service	138,791	1,225	473
Two other services	184,552	1,847	713
Three other services	216,196	834	322
Four other services	0	0	0
Five or more other services	0	0	0
Area common to all	87,287	2,406	929
Area not common to all	452,252	1,500	579
TOTAL	539,539	3,906	1,508

FIGURE 5-D

POPULATION AND AREA DATA  
 MIMS COMMUNITY RADIO, INC.  
 CHANNEL 202C1 - OAK HILL, FLORIDA

	<u>Population</u>	<u>Area</u>	
		<u>(sq. km.)</u>	<u>(sq. mi.)</u>
No other services	0	0	0
One other service	23,241	554	214
Two other services	129,390	2,279	880
Three other services	31,670	635	245
Four other services	0	0	0
Five or more other services	0	0	0
Area common to all	87,287	2,406	929
Area not common to all	97,014	1,062	410
TOTAL	184,301	3,468	1,339

FIGURE 5-E

## POPULATION AND AREA DATA

SOUTHWEST FLORIDA COMMUNITY RADIO, INC.  
CHANNEL 202C2 - CONWAY, FLORIDA

	<u>Population</u>	<u>Area</u>	
		<u>(sq. km.)</u>	<u>(sq. mi.)</u>
No other services	0	0	0
One other service	126,141	1,163	449
Two other services	184,291	1,732	669
Three other services	215,429	816	315
Four other services	0	0	0
Five or more other services	0	0	0
Area common to all	87,287	2,406	929
Area not common to all	438,574	1,305	504
TOTAL	525,861	3,711	1,433

FIGURE 5-F

## POPULATION AND AREA DATA

## COMMON AREA

	<u>Population</u>	<u>Area</u>	
		<u>(sq. km.)</u>	<u>(sq. mi.)</u>
No other services	0	0	0
One other service	7,215	376	145
Two other services	74,245	1,561	603
Three other services	5,827	469	181
Four other services	0	0	0
Five or more other services	0	0	0
TOTAL	87,287	2,406	929


D E C L A R A T I O N

I declare under penalty of perjury that:

1. I am a broadcasting consultant practicing in the City of Washington, District of Columbia; I am an associate of the firm of Smith and Powstenko; and my qualifications are a matter of record before the Federal Communications Commission.

2. The firm of Smith and Powstenko has been retained by the five remaining mutually exclusive applications for a new noncommercial FM station to operate on Channel 202 in central Florida to prepare a study of comparative coverage for purposes of the record in MM Docket No. 92-33.

3. The foregoing statements and the attached Engineering Statement and associated exhibits, which were prepared by me or under my immediate supervision, are true and correct to the best of my knowledge and belief.

A handwritten signature in black ink, appearing to read 'K. T. Fisher', written over a horizontal line.

KEVIN T. FISHER

June 8, 1992